

United States Environmental Protection Agency

**WELL REWORK RECORD, PLUGGING AND ABANDONMENT PLAN,
OR PLUGGING AND ABANDONMENT AFFIDAVIT**

Name and Address, Phone Number and/or Email of Permittee

Merit Energy Company, LLC
13727 Noel Road, Suite 1200
Dallas, TX 75240
972-628-1441
eric.kittinger@meritenergy.com

Permit or EPA ID Number

WY20000-02169

API Number

49-013-06833

Full Well Name

Shoshone 65-20

State

Wyoming

County

Fremont

Locate well in two directions from nearest lines of quarter section and drilling unit

Latitude 43.5336275

Surface Location

SE 1/4 of SE 1/4 of Section 36 Township 7N Range 3W

Longitude -109.0572669

330 ft. from (N/S) S Line of quarter section

1060 ft. from (E/W) E Line of quarter section.

Well Class

- ☐ Class I
☒ Class II
☐ Class III
☐ Class V

Timing of Action (pick one)

☐ Notice Prior to Work

Date Expected to Commence

☒ Report After Work

Date Work Ended 7/12/2022

Type of Action (pick one)

- ☐ Well Rework
☒ Plugging and Abandonment
☐ Conversion to a Non-Injection Well

Provide a narrative description of the work planned to be performed, or that was performed. Use additional pages as necessary. See instructions.

Merit Energy Company submits the attached daily reports and wellbore diagram following plug and abandonment operations.

Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR § 144.32)

Name and Official Title (Please type or print)

Eric Kittinger, Senior Regulatory Analyst

Signature

Date Signed

07/21/2022

INSTRUCTIONS FOR FORM 7520-19

This form replaces forms 7520-12 and 7520-14. Use this form only when work is planned or has occurred that affects the well's construction or operation as an injection well, including work on the casing, tubing or packer (or for shallow Class V wells, the subsurface fluid emplacement network). Use one form per injection well. While reports or other information developed by contractors or service companies may be attached, this form must be signed by a responsible entity as described at 40 CFR 144.32. Note: operators closing Class V wells should use Form 7520-17.

NAME, ADDRESS, PHONE AND/OR EMAIL OF PERMITTEE: Enter the name and street address, city/town, state, and ZIP code of the permittee. Also provide an email address (if available) and/or a phone number.

PERMIT OR EPA ID NUMBER: Enter the well identification number or permit number assigned to the well by the EPA or the permitting authority.

API NUMBER: Enter the number assigned by the local jurisdiction (usually a State Oil and Gas Agency) using the American Petroleum Institute standard numbering system.

FULL WELL NAME: Enter the full name of the well or project.

Enter the **STATE** and **COUNTY** where the well is located. For States that do not have counties, use the name of that State's equivalent jurisdiction at a more local level.

WELL LOCATION: Fill in the complete township, range, and section to the nearest quarter-quarter section. A township is north or south of the baseline, and a range is east or west of the principal meridian (e.g., T12N, R34W). Also include the distance, in feet, from the nearest north or south line and nearest east or west line of the quarter-section. Also, enter the **latitude** and **longitude** of the well in decimal degrees, to five or six places if possible; be sure to include a negative sign for the longitude of a well in the Western Hemisphere and a negative sign for the latitude of a well in the Southern Hemisphere.

Enter the **WELL CLASS**, i.e., the class of injection well as defined in 40 CFR 144.6.

TIMING OF THE ACTION: Check *Notice prior to work* if the activity has not yet occurred (i.e., is planned). Check *Report after work* if the activity described has already occurred. As appropriate, include the date the activity is expected to start or the date the activity was completed. (Note this may not be available, e.g., for a plugging plan submitted with a permit application.)

TYPE OF ACTION: Check the appropriate box to describe the kind of activity being reported. Check *Well Rework* for work that was/will be performed on the well after it has already been in operation as an injection well. Check *Plugging and Abandonment* to report on plans for or descriptions of final closure/plugging after use as an injection well. Check *Conversion to a Non-Injection Well* if the well is to be converted to something other than an injection well.

Provide a **NARRATIVE DESCRIPTION** of the work planned to be performed, or that was performed. The narrative should include a description of the main procedures planned or that occurred during the work activity. A service company report, daily report, or similar document may be attached if it includes all the requested information and is clear and legible.

For well reworks, include the following information: The reason for the well rework; depths of activity; type of activity; changes to injection well configuration, well casing, or cement behind casing; any plug added to the well and its depth; any newly drilled interval and its depth; method(s) to demonstrate that the well has mechanical integrity (as applicable); and any deviations from the approved rework plan (as applicable).

For a well plugging plan, include the following information: Reason for the well plugging; number of plugs placed, and their depths; materials used as plugs (e.g., cast iron bridge plug, cement, cement retainer); method to set plugs; and wait-on-cement times, if any. Also provide one or more cost estimates from an independent firm in the business of plugging and abandoning wells to plug the well as described in the plan.

For well plugging affidavit, include the following information: Reason for the well plugging; number of plugs placed, and their depths; materials used as plugs (e.g., cast iron bridge plug, cement, cement retainer); method to set plugs; wait-on-cement times, if any; and any deviations from the approved plugging plan (if applicable).

For conversion to a non-injection well, include the following information: Depths of activity; type of activity; changes to injection well configuration, well casing, or cement behind casing; any plug added to the well and its depth; any newly drilled interval and its depth; depths of new perforations; and method(s) to demonstrate that the well has mechanical integrity (as applicable).

For all of the above activities, include a well sketch depicting the work, results of well tests/logging performed, service company tickets, and any other available information demonstrating how the work was/is to be performed. Also, specify whether depths are below ground surface, relative to Kelly bushing, etc.

CERTIFICATION: This form must be signed and dated by either: a responsible corporate officer for a corporation, by a general partner for a partnership, by the proprietor of a sole proprietorship, or by a principal executive or ranking elected official for a public agency.

PAPERWORK REDUCTION ACT NOTICE: The public reporting and recordkeeping burden for this collection of information is estimated to average between 6.0 and 7.9 hours per response, depending on the injection well class. Burden means the total time, effort, or financial resource expended by persons to generate, maintain, retain, or disclose or provide information to or for a Federal Agency. This includes the time needed to review instructions; develop, acquire, install, and utilize technology and systems for the purposes of collecting, validating, and verifying information, processing and maintaining information, and disclosing and providing information; adjust the existing ways to comply with any previously applicable instructions and requirements; train personnel to be able to respond to the collection of information; search data sources; complete and review the collection of information; and, transmit or otherwise disclose the information. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number. Send comments on the Agency's need for this information, the accuracy of the provided burden estimates, and any suggested methods for minimizing respondent burden, including the use of automated collection techniques to Director, Collection Strategies Division, U.S. Environmental Protection Agency (2822), 1200 Pennsylvania Ave., NW., Washington, D.C. 20460. Include the OMB control number in any correspondence. Do not send the completed forms to this address.

Well Name: Shoshone 65 20

Daily Operations

Report Start Date 4/28/2022	Primary Activity
Operations Summary MORU. ND flowline, RU workflow and tongs. Release AD-1 pkr. Spot in trailer. Began to swab casing while pulling pkr. Haul vac trailer and hook up to backside csg valve. LD 25 jts 2-3/8" tbg to TOH. LD pkr. Secure well w/ last jt. PU tools/location. RDMO.	
Report Start Date 4/29/2022	Primary Activity
Operations Summary RDMOL	
Report Start Date 7/5/2022	Primary Activity
Operations Summary MIRUSU, Move equipment to location.	
Report Start Date 7/6/2022	Primary Activity
Operations Summary Spot in equipment, Spot in tbg, R/U work floor, Tally tbg, P/U 4 1/2 B&S, TIH w/ 28 jts @ 847', L/D 2 jts & stand back 13 stands, L/D B&S, P/U 4 1/2 CIGR, TIH w/ 13 stands & set CIGR @ 797', Sting out & est circ, Roll hole w/ 15 bbls of fresh water, Shut in 4 1/2 csg valve & MIT csg @ 500 psi for 10 min test passed, Sting in & est injection rate w/ 3.5 bbl/min @ 50 psi, BLM & EPA required an additional 78 sx of cement & was ok w/ Merit as well, Mix & pump 118 sx of cement below, Sting out & spot 10 sx on top, L/D 5 jts, Mix & pump 1.5 bbls of 9 ppg mud from 646'-550', L/D 21 jts of tbg, R/U wire line, RIH w/ wire line & shoot perfs @ 525', L/D wire line, Tie onto 4 1/2 csg & try to est circ could not get circ pressured up to 600 psi & held, Swapped hoses & tried to pump down 9 5/8 surface csg w/ 2 bbl/min @ 450 psi, Consult Matt Miller w/ Merit & the EPA & decided to RIH w/ wire line & shoot perfs @ 425', RIH w/ wire line & shoot @ 425', L/D wire line, Tie onto 4 1/2 csg & pressured up to 1000 psi & broke down, Pumped 18 bbls of fresh water w/ no returns w/ 2 bbl/min @ 600 psi, Consult Matt Miller w/ Merit to wait on orders in the morning, Late in day, SIW, SDFN.	
Report Start Date 7/7/2022	Primary Activity
Operations Summary Consult Matt Miller w/ Merit & EPA orders are as follows spot a balance plug from 550'-375' & pump 35 sx of cement down the 9 5/8 csg from 125' to surface & shut in, Tag cement in the morning, TIH w/ 18 jts @ 553', Mix & pump 14 sx of cement from 553'-375' across perf holes, L/D 18 jts, Tie onto the 9 5/8 surface csg & est injection rate w/ 2bbl/min @ 350 psi, Mix & pump 35 sx of cement & shut in csg valve, Tag cement in the 4 1/2 csg & check cement in the 9 5/8 csg in the morning, SIW, SDFN.	
Report Start Date 7/8/2022	Primary Activity
Operations Summary TIH w/ 15 jts & tag TOC @ 440' below the perfs @ 425', Tie onto 9 5/8 surface csg valve & pressure test could pump up to 200 psi w/ bleed off, Consult Matt Miller w/ Merit & the EPA, Amend plugging procedure as follows TIH & set 4 1/2 CIGR @ 370' pump 8 sx below sting out & pump 25 sx of cement from 370'-50' from surface cut off 4 1/2 x 9 5/8 csg & top off as needed, TIH w/ 13 jts w/ 4 1/2 B&S to ensure no cement stringers, Stand back 6 stands & L/D 1 single, P/U 4 1/2 CIGR, TIH w/ 6 stands & set CIGR @ 370', Sting out & est circ, Sting in & tried to pump below w/ no rate @ 1000 psi, Consult Matt Miller w/ Merit & the EPA & we will spot 25 sx on top from 370'-50' from surface, Mix & pump 25 sx of cement, L/D 12 jts, RDMOSU, N/D BOP & move equipment.	
Report Start Date 7/9/2022	Primary Activity
Operations Summary Open 9 5/8 surface csg valve a light continueouse drizzel of oil was present, Consult Matt Miller & TJ Owsley w/ Merit tie onto csg valve & try to est rate, No rate could pump up to 400 psi w/ slow bleed off, SIW & consult w/ the EPA on Monday for orders proceeding forward.	
Report Start Date 7/11/2022	Primary Activity
Operations Summary Consult Matt Miller & TJ Owsley w/ Merit & the EPA, Orders are as follows Cut off Surface csg & production csg & top off w/ cement & monitor 9 5/8 csg, RIH w/ 1" polly 50' in 4 1/2, Mix & pump 5 sx of cement to surface, Top off cement in 9 5/8 csg & monitor, Top off as needed.	
Report Start Date 7/12/2022	Primary Activity
Operations Summary Cement to surface in 9 5/8 csg & 4 1/2 csg, Weld on plate w/ well legals & back fill, Dig up anchors & back fill, Clean up location.	

Well Name: Shoshone 65 20

API/UWI 490130683300	Lease Line Legal Desc SW/SE, SEC36, TN, R3W	County Cade Ridge	Licence #	State WYOMING	Well Configuration Type
Original KB Elevation (ft) 7,229.00	KB-Tubing Head Distance (ft) 7,229.00	Original Spud Date 1/1/1900 00:00	Rig Release Date	PBTD (All) (ftKB)	Total Depth All (TVD) (ftKB)

Most Recent Job

Job Category Plug & Abandon	Primary Job Type Permanently Abandon Well	Secondary Job Type	Job Start Date 4/28/2022	Job End Date
--------------------------------	--	--------------------	-----------------------------	--------------

TD: 1,148.0

SHOSHONE-65 20, 7/21/2022 8:18:31 AM

